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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,448	01/04/2001	Susan I. Shelso	06530.0275	3427
22852	7590 12/02/2004		EXAM	INER
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			LANDREM,	KAMRIN R
LLP 1300 I STRE	ET. NW		ART UNIT	PAPER NUMBER
	ON, DC 20005		3738	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Annlicenta			
	Application No.	Applicant(s)			
	09/753,448	SHELSO, SUSAN I.			
Office Action Summary	Examiner	Art Unit			
	Kamrin R. Landrem	3738			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>09 August 2004</u> .					
2a) This action is FINAL . 2b) ☑ This	and the control of th				
3) Since this application is in condition for allower	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-44 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)				
Paper No(s)/Mail Date 6) Other:					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/1/04 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7-13, 15, 16, 29, 30, 32-35 and 44 rejected under 35 U.S.C. 103(a) as being unpatentable over Ravenscroft in view of Fischell (USPN 5,735,859).

With reference to Figure 1, Ravenscroft discloses a delivery system 10 comprising a catheter 11 having self-expanding (10:49) stent 20 disposed on distal end near loading funnel 13. Figure 1 shows that loading funnel 13 is used to compress stent 20 on the distal end of catheter 11 within an outer member 24 during delivery into the patient's body. The catheter 11 further comprises a guidewire 31 and a tubular member 17 comprising at least three radiopaque marker bands 37 that indicate the leading, middle, and trailing ends of stent 20. Figure 5 discloses 4 dark rings indicating four marker bands with the first band being located near the distal end 50 of the

stent to indicate the end that is leading into the vessel and the portion of the stent that will be expanded first. The catheter also has an outer member 24 that is slidable relative to the tubular member (5:15-22) and is configured to retain the stent 20 in a radially compressed position. In one embodiment Ravenscroft discloses an inflatable balloon device 60 disposed on the catheter beneath the stent (7:10-13). The marker bands can be used to indicate a position corresponding to the re-constrain limit of a partially deployed stent (7:53-59). Ravenscroft also discloses the method for implanting a self-expanding stent comprising the following steps; providing the stent/deployment system combination, delivering the system to the target region, partially deploying the stent, re-constraining the stent, and inflating the balloon device to assist the expansion of the stent (6:21-58 and 7:1-41). Ravenscroft discloses the delivery system for a selfexpanding stent as claimed. Ravenscroft however fails to disclose that the first marker is located at the distalmost leading end of the self-expanding stent. Fischell teaches an integrated catheter delivery device comprising fluid ports 33, 29, 44, a holding sleeve 20, and a first marker band 80 or 180 at a position corresponding to a distal most leading end of the self-expanding stent 60 to indicate a position of the distal most leading end that serves a "rapid exchange device" thereby reducing the exchanges of parts used to deploy the stent. Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the delivery system as disclosed by Ravenscroft by including a marker band on the distal most leading end of the stent as taught by Fischell to create a delivery device with that reduces the procedures required to deploy the stent.

Claims 5, 6 and 17-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ravenscroft as modified by Fischell and further in view of Lenker et al (USPN 5,749,921).

Ravenscroft, as discussed above, discloses the stent delivery device as claimed. Ravenscroft however fails to teach the loading the stent onto the delivery system through the delivery funnel. Lenker teaches a the device and method of loading a stent 72 into a delivery catheter prior to deployment by attaching removable cartridge 102 comprising flared portion 100 thereby allowing the stent to be loaded in the operating room prior to deployment to avoid shipping and storing the prosthesis in a compressed configuration (7:1-25). After the stent 72 is loaded within sheath 106 it is detached from the delivery system and disposed at the end of a delivery catheter. Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the delivery device disclosed by Ravenscroft and modified by Fischell in order to incorporate the method of loading the stent as taught by Lenker in order avoid storing the stent in a compressed configuration thereby promoting resilient expansion of the stent to its full diameter when it is released.

Claims 31 and 36-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over St. Germain (USPN 5,534,007) in view of Fischell and Lenker et al (USPN 5,749,921).

St. Germain et al discloses a delivery system 5 for a self-expanding stent comprising a catheter 5 having a tubular member with an inflatable balloon disposed beneath a self-expandable stent 35 and a loading funnel 25 disposed on its distal end. The catheter also includes a holding sleeve 60 and an outer member 40 that is slidable relative to the tubular member (3:26-59). The loading funnel is capable of assisting with compression of the stent by fixing it in place in the axial direction. The tubular member defines a first lumen 15 for guidewire 20 and second lumen for providing a fluid passage (3:57-59). St. Germain discloses the combination of the stent and delivery system as claimed. St. Germain however fails to disclose that the stent is capable of

being received within the loading funnel. Lenker teaches a the device and method of loading a stent 72 into a delivery catheter prior to deployment by attaching removable cartridge 102 comprising flared loading portion 100 thereby allowing the stent to be loaded in the operating room prior to deployment to avoid shipping and storing the prosthesis in a compressed configuration (7:1-25). After the stent 72 is loaded within sheath 106 it is detached from the delivery system and disposed at the end of a delivery catheter. Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the delivery device disclosed by St. Germain and modified by Fischell in order to incorporate the method of loading the stent as taught by Lenker in order avoid storing the stent in a compressed configuration thereby promoting resilient expansion of the stent to its full diameter when it is released.

Response to Arguments

Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kamrin R. Landrem whose telephone number is 571-272-4752. The examiner can normally be reached on 8:00-5:00, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kamrin Landrem Examiner AU 3738

krl

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